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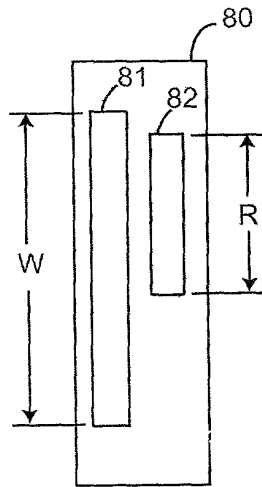


FIG. 2

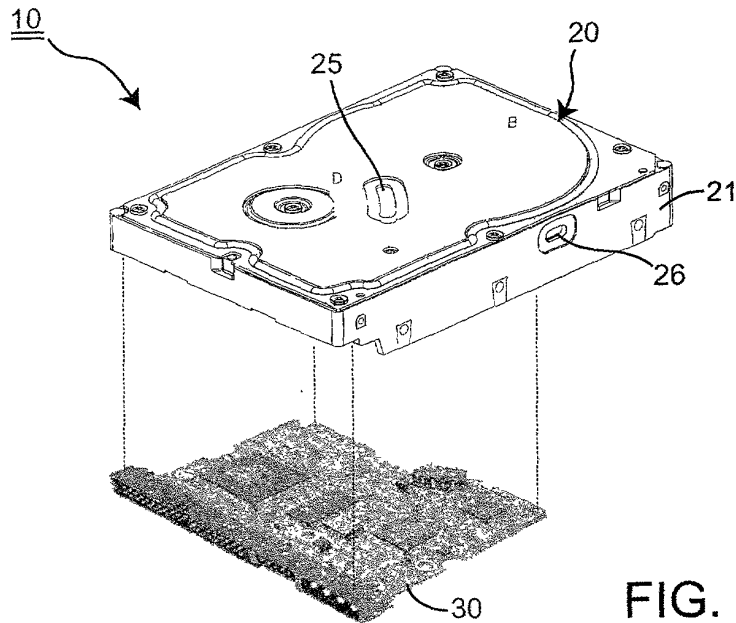


FIG. 3

095065-0710



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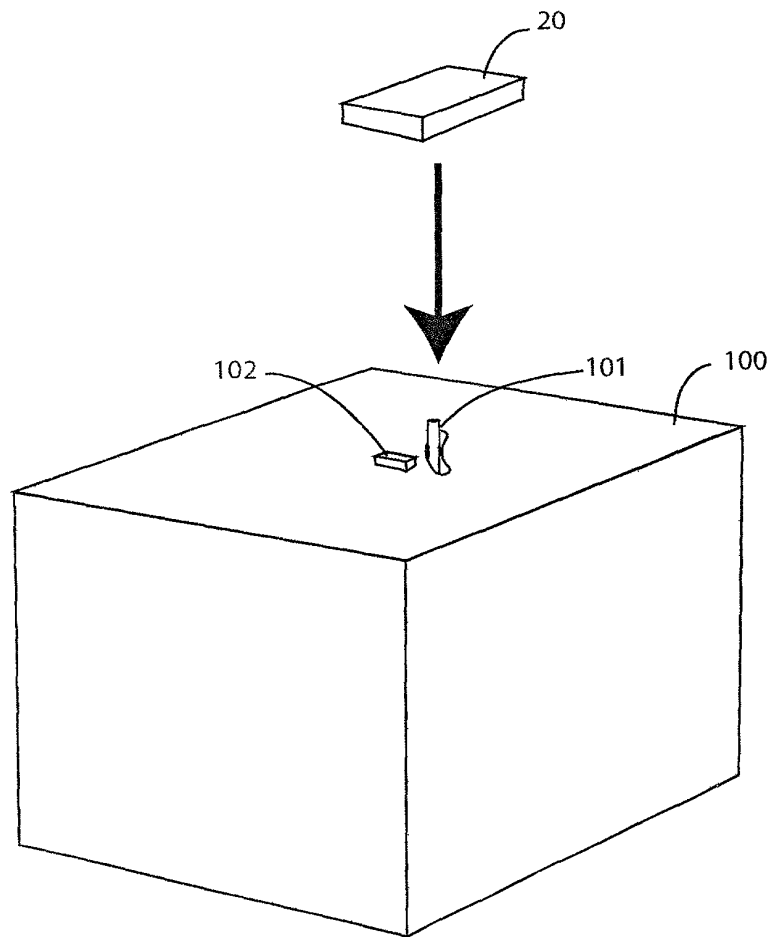


FIG. 5

092065-07401
TOTAL 5990260

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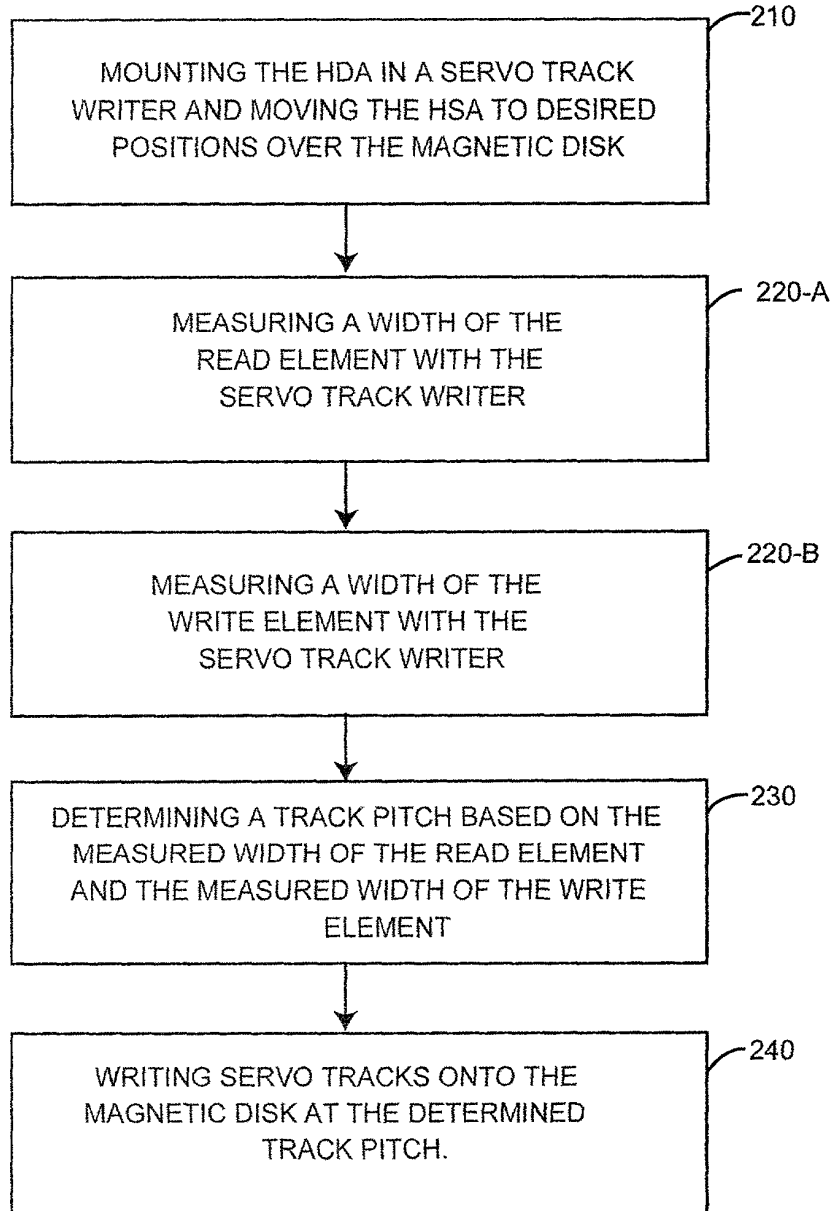
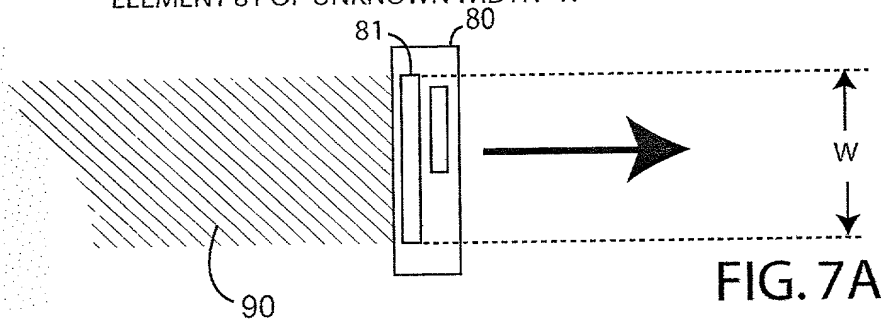


FIG. 6

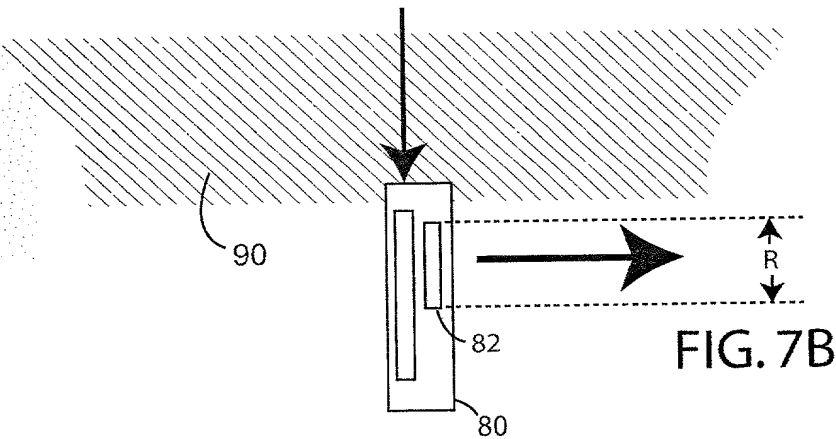
092065-073401

221: WRITE A TEST TRACK WITH THE HEAD'S WRITE
ELEMENT 81 OF UNKNOWN WIDTH "W"

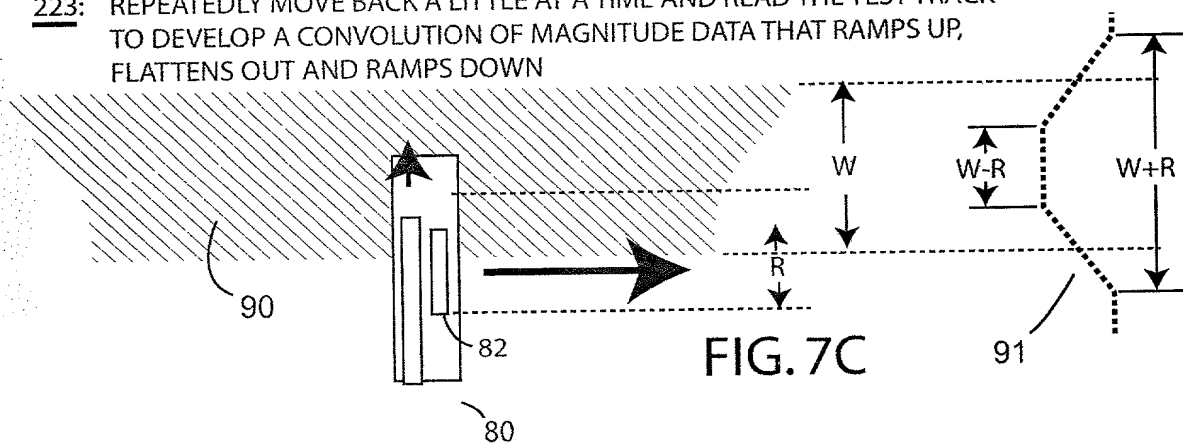
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222: MOVE RADially AWAY AND READ THE TEST TRACK OF UNKNOWN WIDTH
"W" WITH THE HEAD'S READ ELEMENT 82 OF UNKNOWN WIDTH "R" WHERE

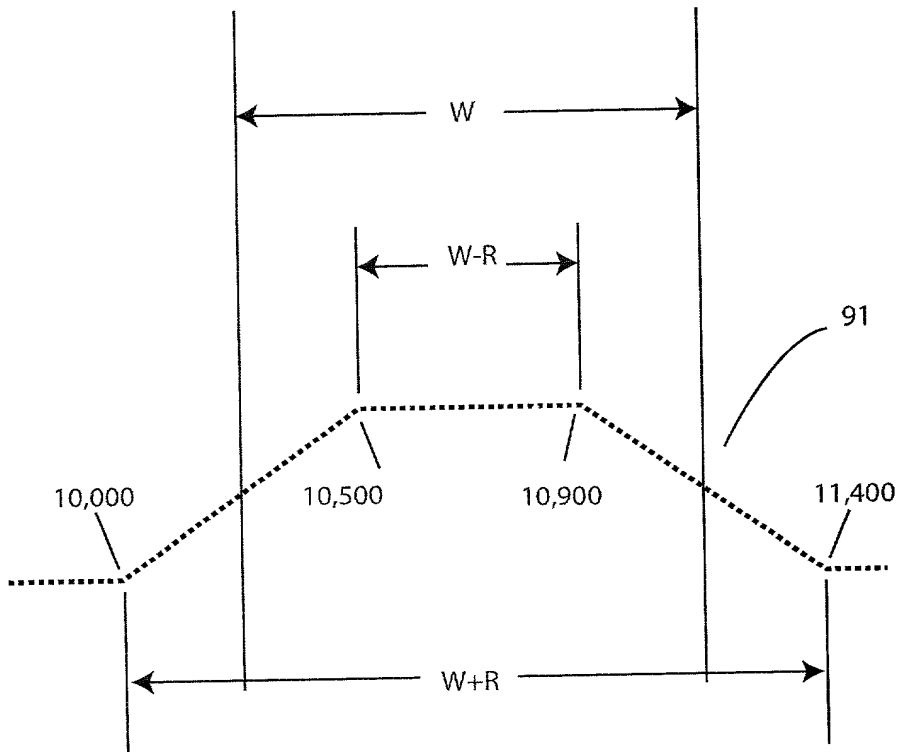


223: REPEATEDLY MOVE BACK A LITTLE AT A TIME AND READ THE TEST TRACK
TO DEVELOP A CONVOLUTION OF MAGNITUDE DATA THAT RAMPS UP,
FLATTENS OUT AND RAMPS DOWN



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224: CALCULATE THE WIDTHS R AND W USING THE STW'S COUNT VALUES



IF $W-R=400$ AND $W+R=1,400$
THEN $W=900$ AND $R=500$

FIG. 7D

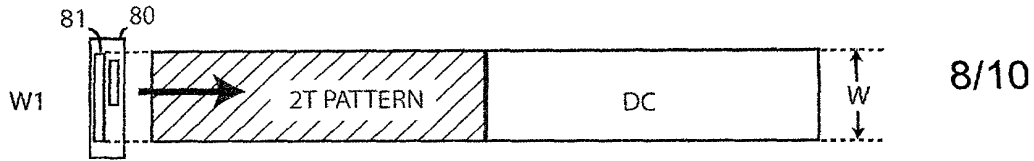


FIG. 8A

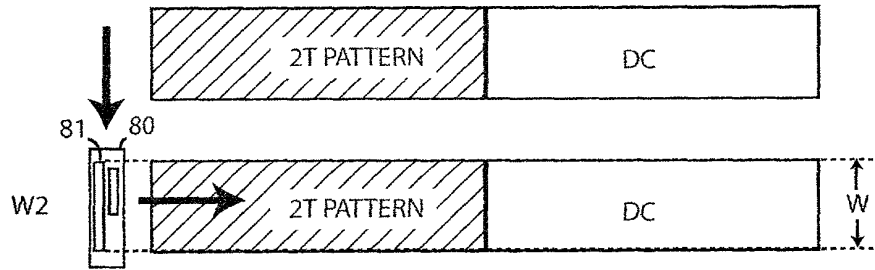


FIG. 8B

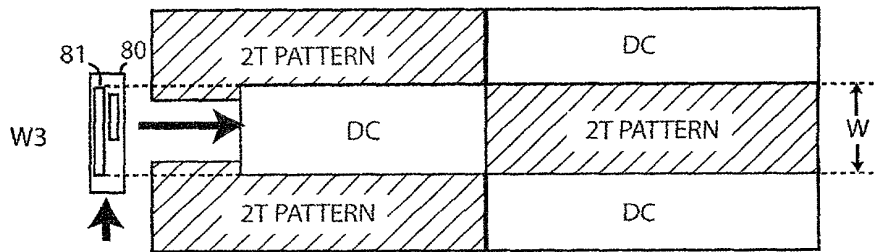


FIG. 8C

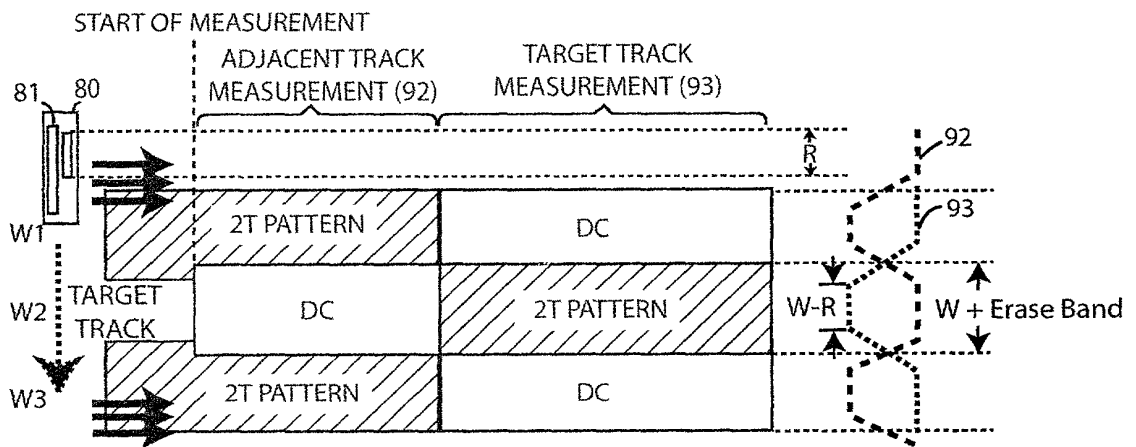


FIG. 8D

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WIDE READER	LOW TPI	LOW TPI	LOW TPI
NOMINAL READER	LOW TPI	NOMINAL TPI	HIGH TPI
NARROW READER	LOW TPI	HIGH TPI	HIGH TPI
	WIDE WRITER	NOMINAL WRITER	NARROW WRITER

FIG. 9

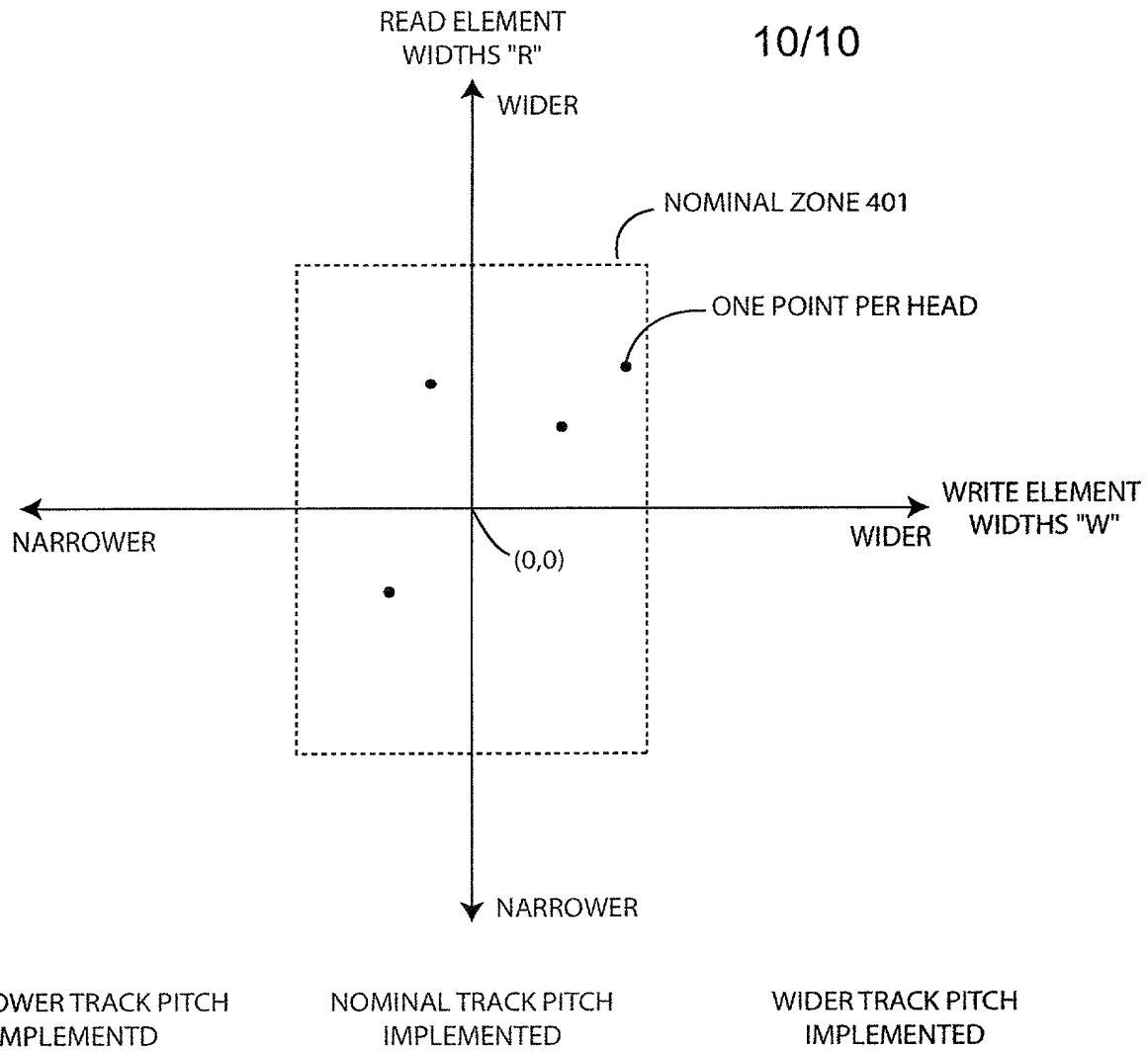


FIG. 10